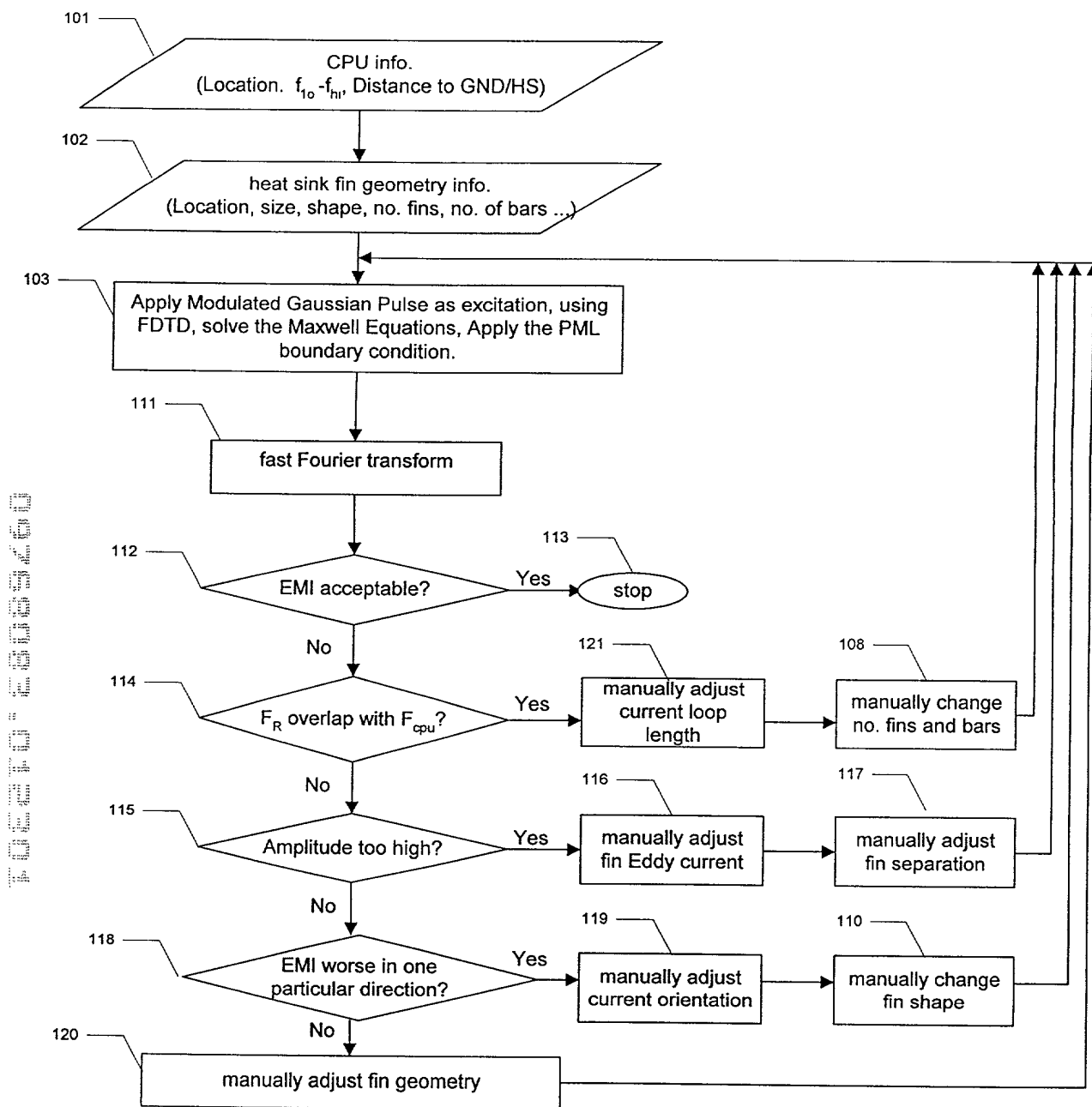


FIG. 1



Note: HS --- Heatsink
 f_{lo} - f_{hi} --- frequency window range
 F_r --- Resonance frequency of the heatsink
PML --- Perfect Matched Layer
FDTD --- Finite Difference in Time Domain
GND --- Ground
FFT --- Fast Fourier Transform

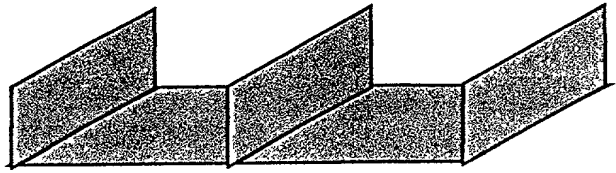
FIG. 1A

Case A



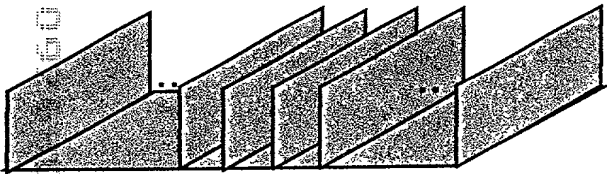
No fin, No top

Case B



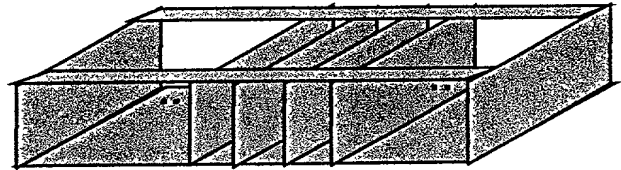
3 fins, No top

Case C



25 fins, No top

Case D



25 fins, 2 top bars

Fig. 2

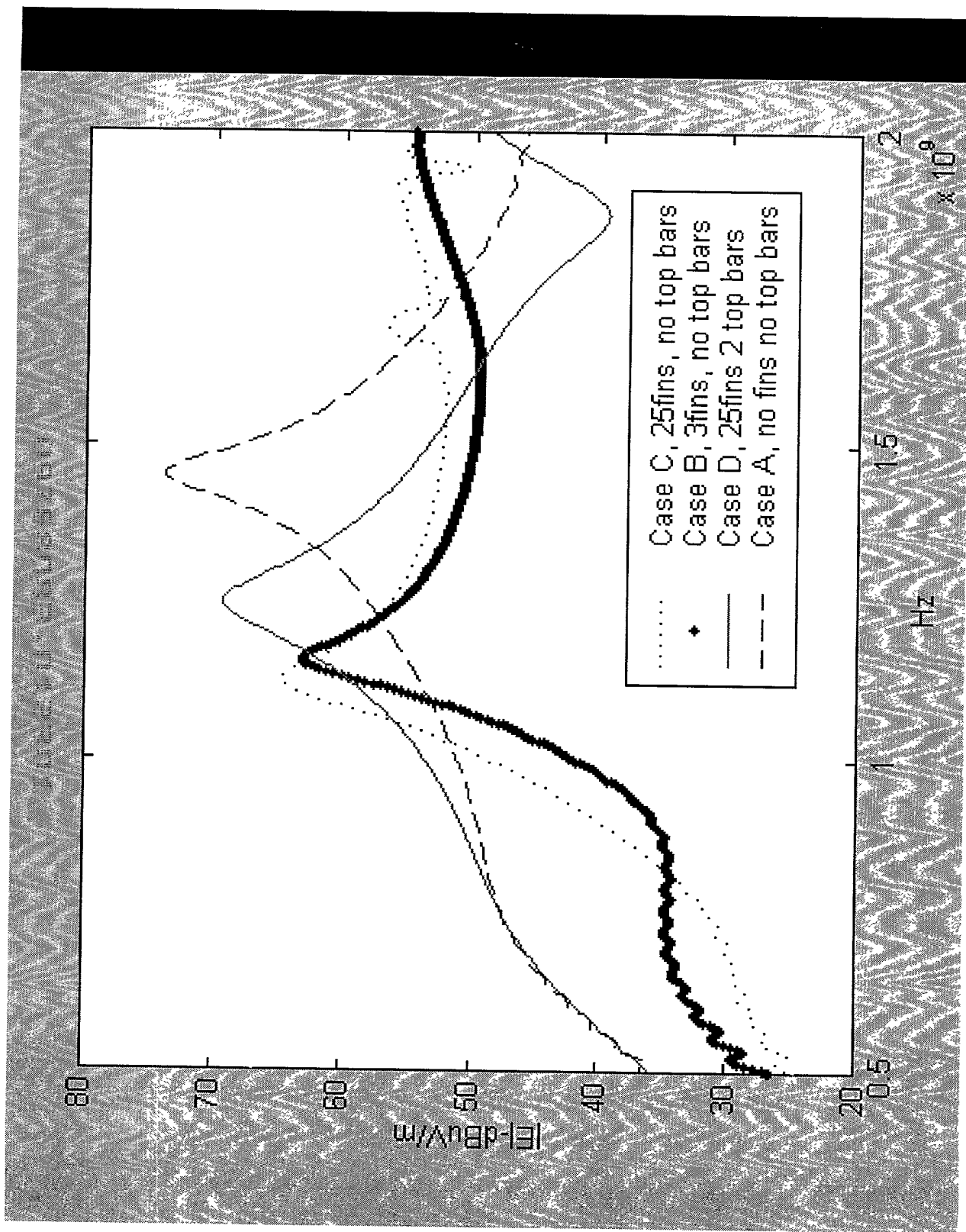


Fig. 3

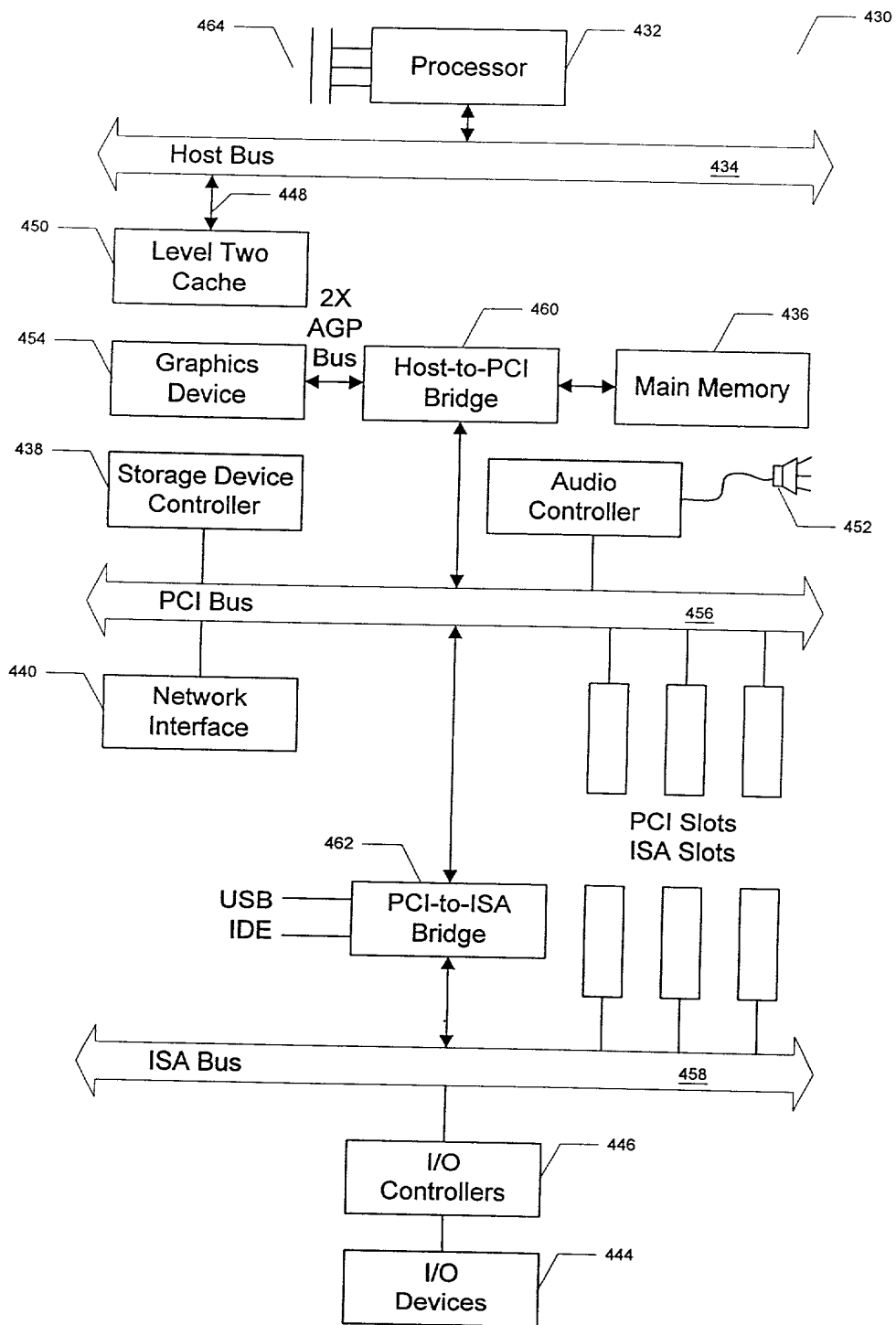


FIG. 4